

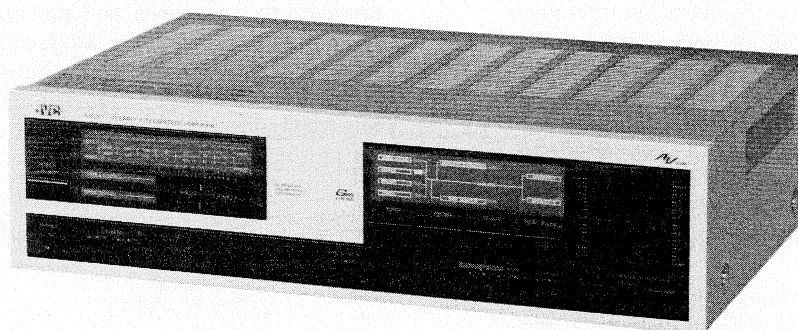
# JVC

## SERVICE MANUAL

### STEREO INTEGRATED AMPLIFIER

#### MODEL A-GX3/A-GX3B

Model	Color
A-GX3	Silver
A-GX3B	Black



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## Safety Precautions

1. The design of this product contains special hardware, many circuits and components specially for safety purposes.  
For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (  $\Delta$  ) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.  
When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after reassembling.
5. Leakage current check  
(Safety for electrical shock hazard)  
After reassembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the pro-

duct is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- Alternate check method.  
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500 $\Omega$  10W resistor paralleled by a 0.15  $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground.  
Measure the AC voltage across the resistor with the AC voltmeter.  
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.).  
This corresponds to 0.5 mA AC (r.m.s.).

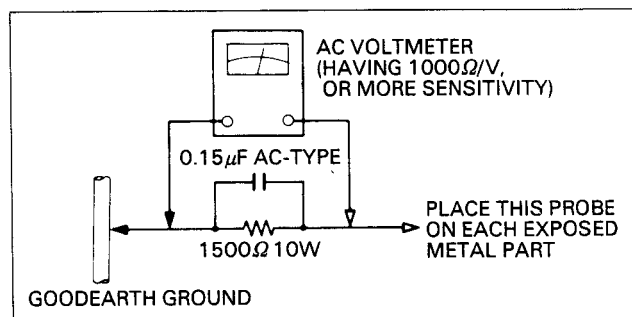


Fig. 1

## Service Precautions

1. Before repairing, be sure to discharge the large electrolytic capacitors across a resistor of about 100 ohms/1 watt.

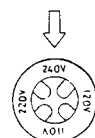
### ■ When disassembling

1. When replacing a power transistor or IC, be sure to apply silicone grease to the section of a new transistor or IC which is in close contact with the heatsink, then mount it.
2. When removing or stretching wires on the P. C. Board, be sure to restore them to their original routing as far as possible.

### CHECKING YOUR LINE VOLTAGE (For U.S. Military Market and Other Countries)

Before inserting the power plug, please check this setting to see that it corresponds with the line voltage in your area. If it doesn't be sure to adjust the voltage selector switch to the proper setting before operating this equipment. The voltage selector switch is located on the rear panel.

**CAUTION:** Before selecting the "Voltage selector switch" to proper voltage disconnect the power plug.



# 1. Specifications

Output Power	: 80 watts per channel, min. RMS, both channels driven into 8 ohms from 20 Hz to 20 kHz, with no more than 0.2% total harmonic distortion. (U.S.A. and Canada only) 85 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.7% total harmonic distortion. (U.S.A. and Canada only) 83 watts per channel, min. RMS, into 8 ohms at 1 kHz with on more than 0.2% total harmonic distortion.
Total Harmonic Distortion	: 0.2% at rated output, from 20 Hz to 20 kHz, 8 ohms
Power Band Width	: 10 Hz – 30 kHz ('66 IHF 0.2% both channels driven, 8 ohms)
Frequency Response	: 10 Hz – 100 kHz +0.5 dB, –3 dB (8 ohms)
Tone Controls	: TREBLE +8 ± 1 dB –8 ± 1 dB (at 10 kHz) BASS +8 ± 1 dB –8 ± 1 dB (at 100 Hz)

Input Sensitivity/ Impedance (1 kHz)	
PHONO	: 2.5 mV/47 kohms
TUNER, CD/AUX, VIDEO SOUND TAPE	: 150 mV/40 kohms
Phono RIAA	
Deviation	: ± 1.0 dB (40 Hz – 15 kHz)
Signal to Noise Ratio	
PHONO	: 70 dB ('66 IHF)
TUNER, CD/AUX, VIDEO SOUND TAPE	: 96 dB ('66 IHF)
PHONO	: 79 dB ('78 IHF, Rec Out)
TUNER, CD/AUX, VIDEO SOUND TAPE	: 73 dB ('78 IHF, Speaker Out)
Loudness Control	: +6 dB at 100 Hz
(Volume Control at –30 dB position)	+4 dB at 10 kHz

## Dimensions and Weight

Dimensions (mm)			Weight (kg/lbs)
Width	Height	Depth	
435 (17-3/16")	117 (4-5/8")	292 (11-1/2")	6.0 (13.3)

Design and specifications subject to change without notice.

## Differences Between Models Intended For Different Areas

Areas	U.S.A. & Canada	Continental Europe	U.K. & Australia	Other areas
Power supply	AC 120V ~, 60 Hz	AC 220V ~, 50 Hz	AC 240V ~, 50 Hz	AC 110/120/220 240V ~ selectable, 50/60 Hz
Power Consumption	270 watts, 345 VA	200 watts	200 watts	200 watts
AC voltage selector	Not fitted	Not fitted	Not fitted	Fitted
AC outlet	Fitted	Not fitted	Not fitted	Fitted
AC line fuse holder	Not fitted	Not fitted	Not fitted	Fitted

## 2. Removal and Reassembly Procedures

### 2-(1) Removal of the Main P.C. Board

1. Remove the metal cover.
2. Remove screws ① ~ ④ on the bracket of P.C. board. (Fig. 2)

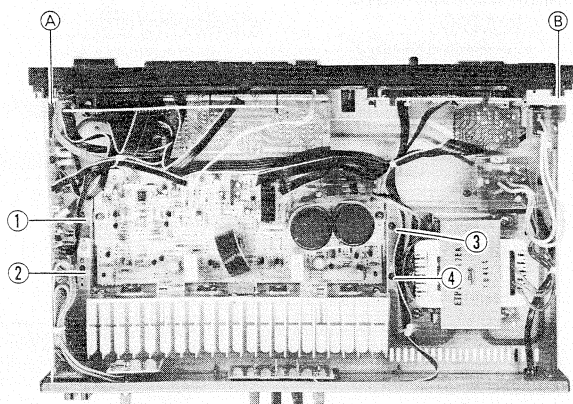


Fig. 2

3. Pull out the main P.C. board in the direction of arrow as shown in Fig. 3.

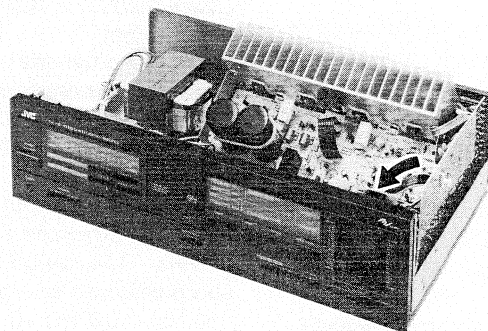


Fig. 3

### 2-(2) Removal of the front panel

1. Remove screws ① and ② on the upper part of front panel shown in Fig. 1.
2. Remove screws ③ ~ ⑥ on the bottom side shown in Fig. 4.

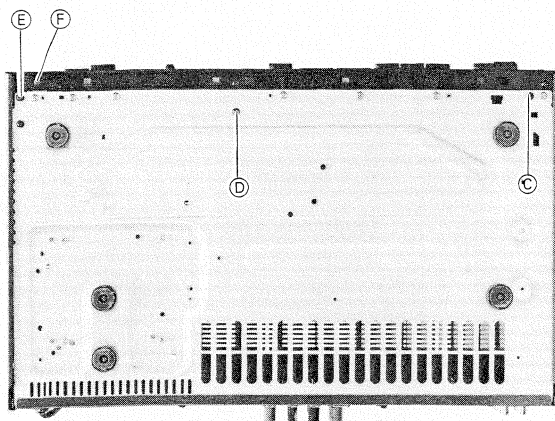
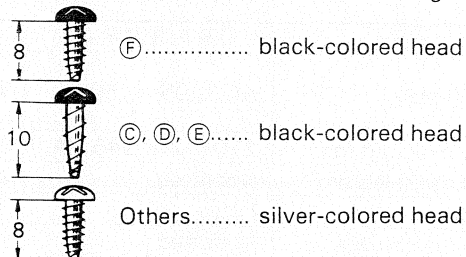


Fig. 4

#### Note:

As three types of fixing screw are used for the base, make sure the screws are correct when reinstalling.





3. As shown in Fig. 5, pull out the front panel forward and raise it.

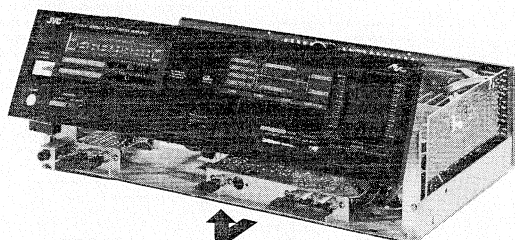


Fig. 5

### 3. Adjustment Procedures

#### 3-(1) Power Amplifier Idling Current Adjustment

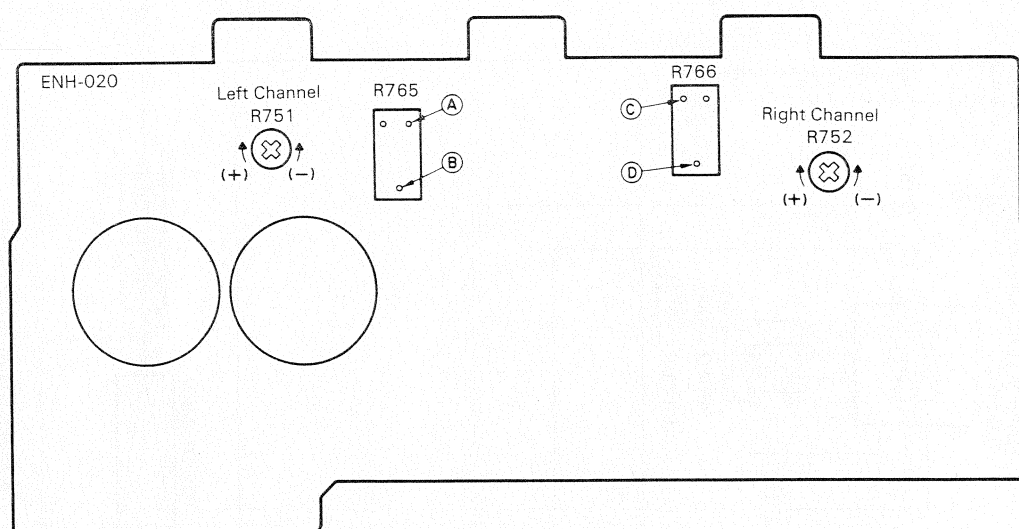
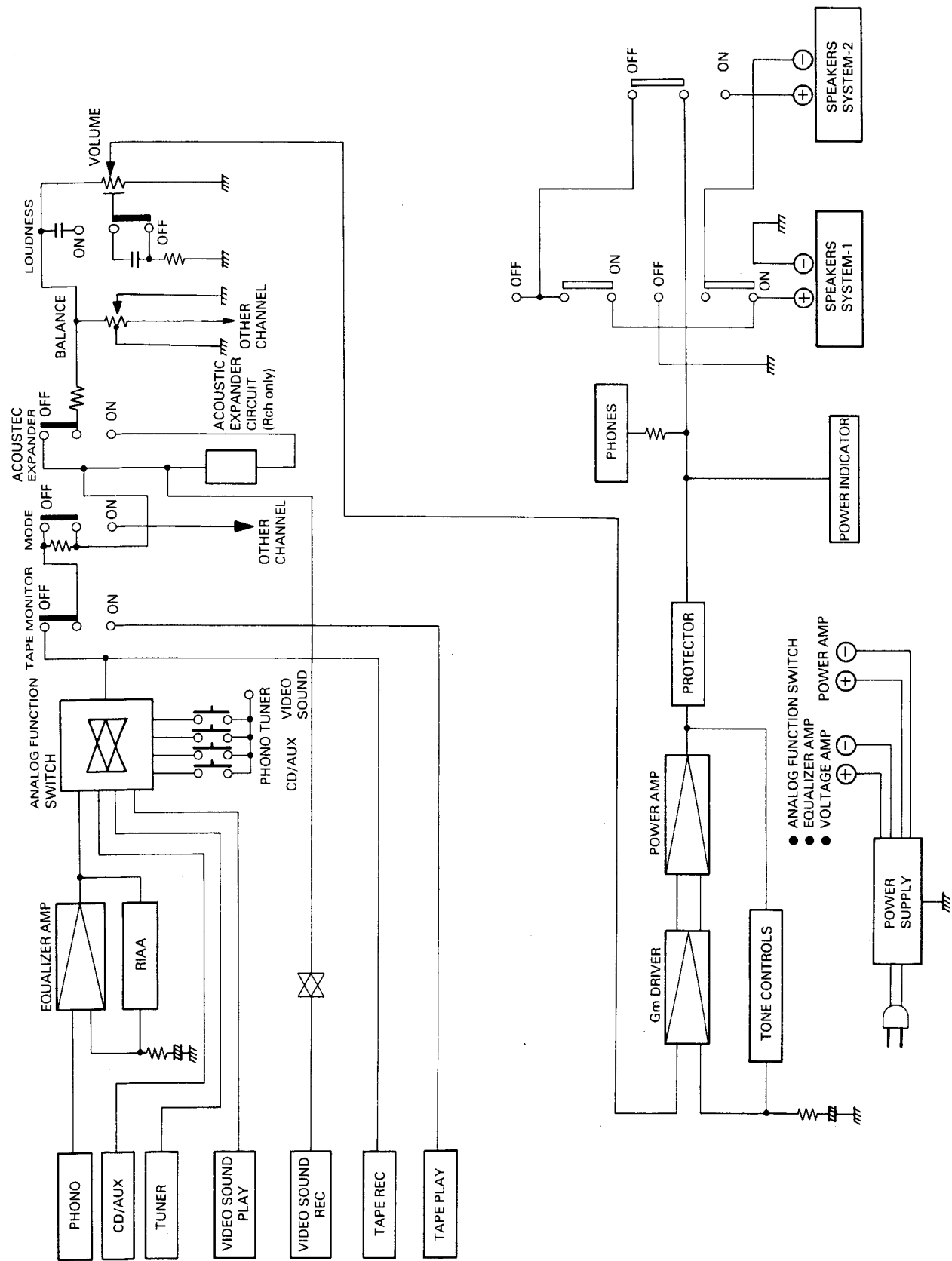


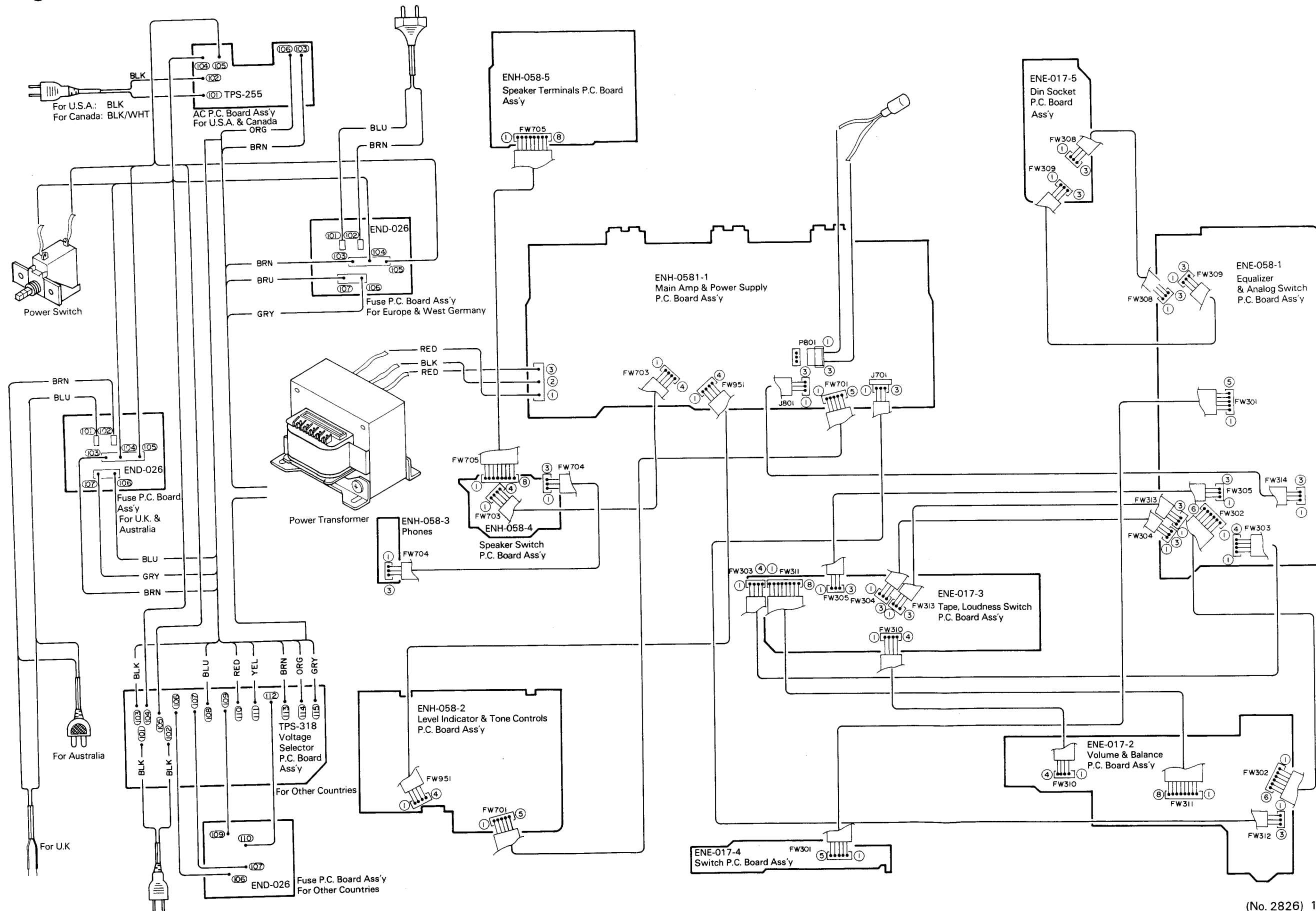
Fig. 6

1. Before turning on the power, turn the semi-fixed resistors (R751 for L channel and R752 for R channel) of the power amplifier circuit board fully counterclockwise.
2. Adjust the semi-fixed resistors (R751 and R752) so that the voltage at the following test points of the power amplifier circuit board is within a range of 1 mV ~ 2 mV after the power is turned on.  
 L channel: Measure the voltage between test point ① (emitter of Q713) and output at the test point ②.  
 R channel: Measure the voltage between test point ③ (emitter of Q714) and output at the test point ④.
3. Readjust resistors R751 and R752 about 5 minutes after the power is turned on (the heatsink temperature must be sufficiently high) so that the voltage at the test points becomes 3 mV.  
 Confirm that the voltage does not vary when the heatsink temperature increases further.  
**Note:** Be sure to perform the measurement with the probes and cabinet of the measuring equipment separated from the grounding terminals of A-GX3 or other measuring equipment.

4. Block Diagram



## 5. Wiring Diagram



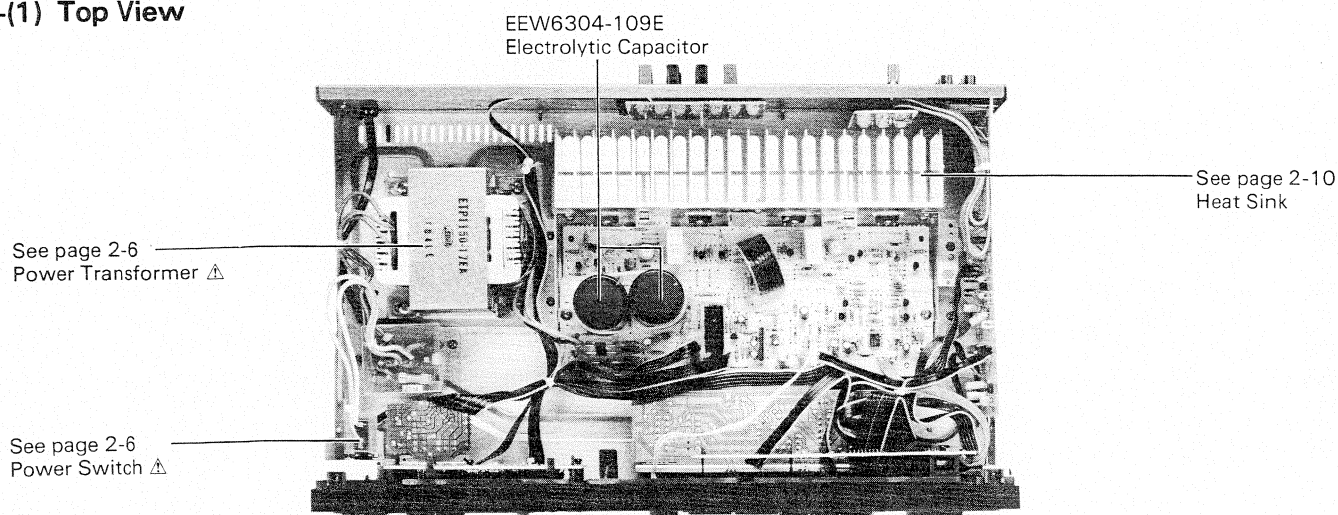
# PARTS LIST

## Contents

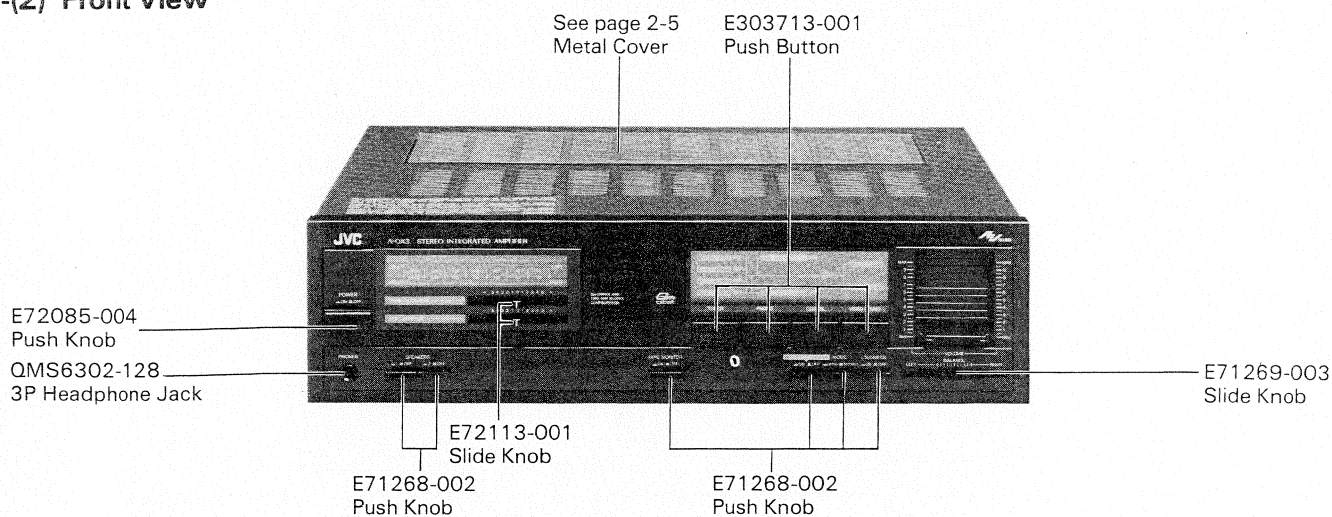
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● ENH-018 <input type="checkbox"/> Equalizer & Switch P.C. Board Ass'y.....	2-11
● TPS-255 <input type="checkbox"/> AC Outlet P.C. Board Ass'y.....	2-13
● TPS-318 <input checked="" type="checkbox"/> Voltage Selector P.C. Board Ass'y.....	2-13
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# 1. Main Parts Locations

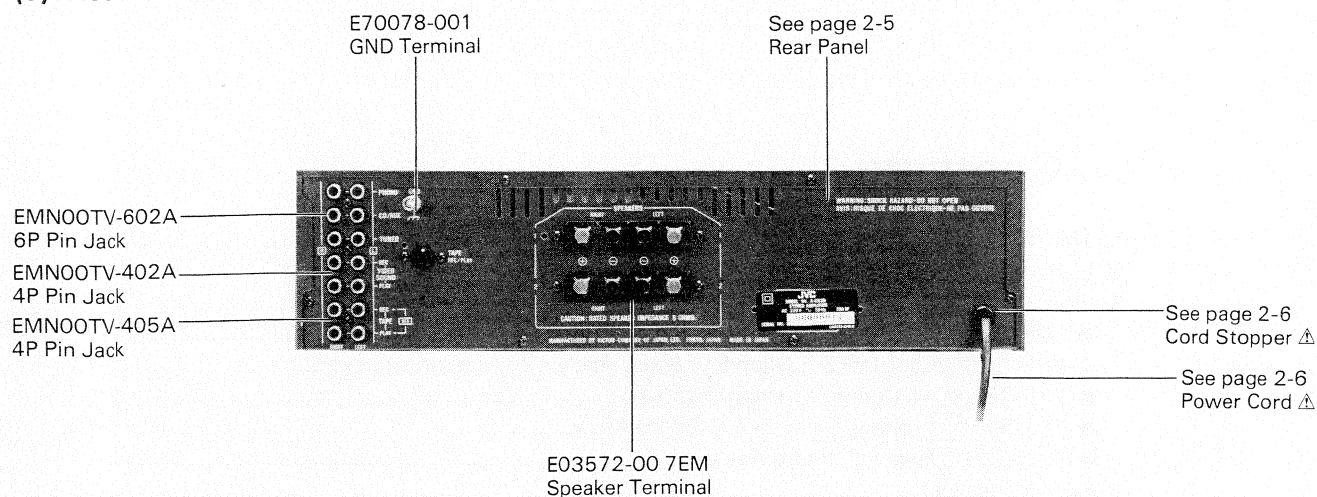
## 1-(1) Top View



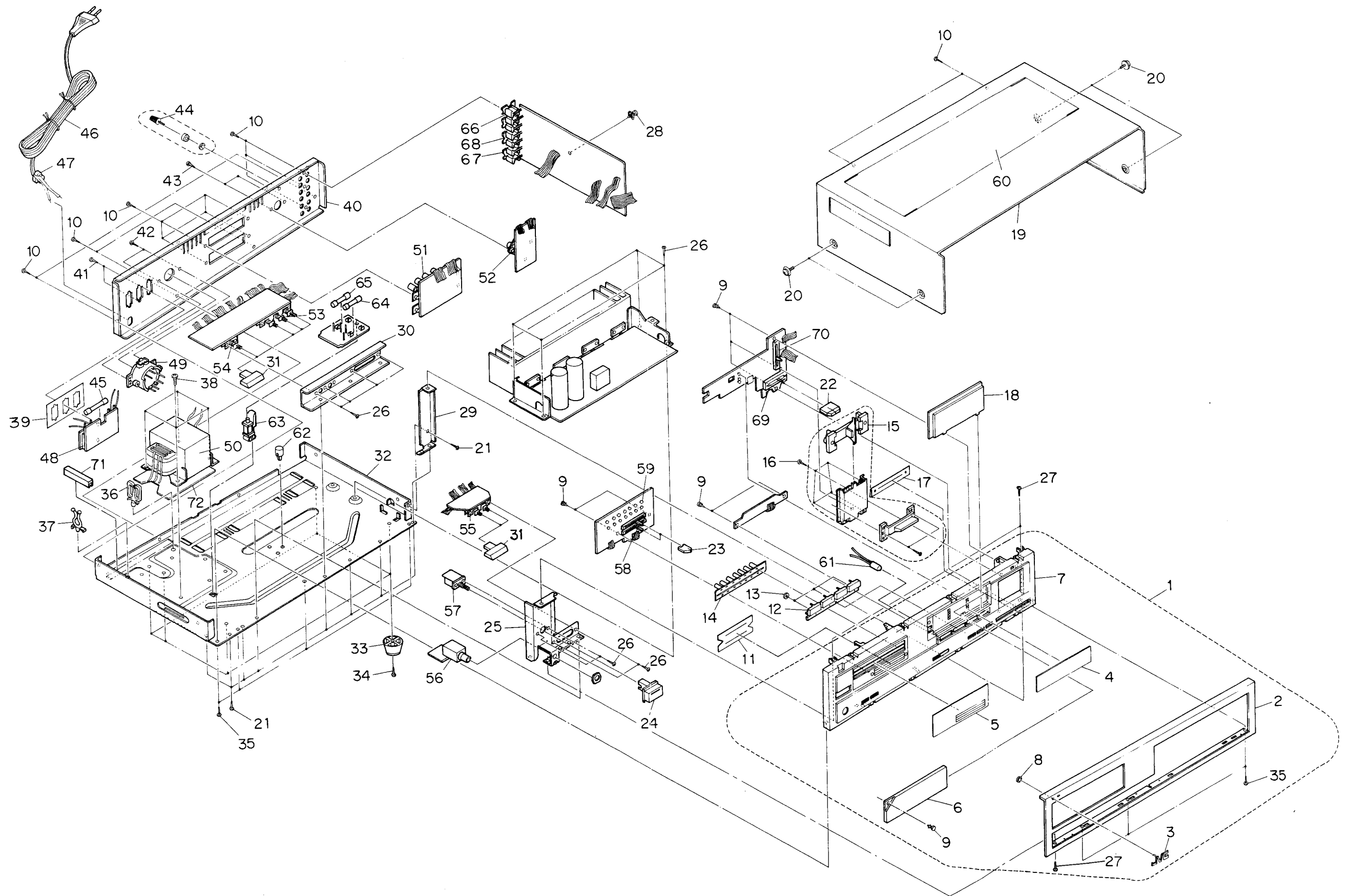
## 1-(2) Front View



## 1-(3) Rear View



## 2. Exploded View and Part List



△	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP-AGX3	Front Panel Ass'y	1	Silver	
	2	EFP-AGX3B	Front Panel Ass'y	1	Black	
	2	E24981-001	Front Panel	1	Silver	
	3	E24981-002	Front Panel	1	Black	
	3	E70913-002	JVC Mark	1	Silver	
	4	E70913-001	JVC Mark	1	Black	
	5	E72147-001	Sheet	1		
	6	E303715-001	Screen	1		
	7	E303711-001	Scale	1		
	7	E11120-001	Front Base	1		
	8	E60912-003	Speed Nut.	1		
	9	E48729-007	Plastic Rivet	1		
	10	SBSB3008N	Screw	13	Silver	
	11	SBSB3008M	Screw	13	Black	
	11	E72250-002	Spacer	1		
	12	E303713-001	Push Button	1		
	13	E60912-003	Speed Nut	3		
	14	E303706-001	Indicator	1		
	15	E303719-001	Volume Knob Ass'y	1		
	16	SBSF3008N	Screw	4		
	17	E72142-002	Spacer	1		
	18	E303721-001	Window Screen	1		
	19	E24721-003	Metal Cover	1	Silver	Except E,BS
		E24721-004	Metal Cover	1	Black	Except E,BS
		E25026-001	Metal Cover	1	Silver	E,BS
	20	E25026-002	Metal Cover	1	Black	E,BS
		E61660-001	Screw	4	Silver	
		E61660-004	Screw	4	Black	
	21	SBSB3008N	Screw	9		
	22	E71269-003	Slide Knob	1		
	23	E72113-001	Slide Knob	2		
	24	E72085-004	Push Knob	1		
	25	E303717-001	Bracket (L)	1		
	26	SBST3006Z	Screw	12		
	27	SBSB3008Z	Screw	3		
	28	E69384-002	Fastener	1		
	29	E72144-001	Bracket (R)	1		
	30	E303714-001	Switch Bracket	1		
	31	E71268-002	Push Knob	6		
	32	E10717-008	Chassis Base	1		
	33	E47227-012	Foot	5		
	34	SBSB3010Z	Screw	5		
	35	SBSF3008M	Screw	3		
	36	QHW3059-001	Wire Clamp	1		
	37	QHW2052-001	Wire Clamp	1		J,C
	38	E65389-002	Screw	4		Except J,C
		E65389-005	Screw	4		J,C
	39	E69589-001	Spacer	1		J
	40	E24127-027	Rear Panel	1	Silver	J,C
		E24127-030	Rear Panel	1	Black	J,C
		E24127-028	Rear Panel	1	Silver	E,A,G,BS
		E24127-031	Rear Panel	1	Black	E,A,G,BS
		E24127-029	Rear Panel	1	Silver	U,P,PG
		E24127-032	Rear Panel	1	Black	U,P,PG
	41	SDBS3008N	Screw	2	Silver	J,C,U,P,PG
		SDBS3008M	Screw	2	Black	J,C,U,P,PG
	42	SBSB3008N	Screw	2	Silver	U,P,PG
		SBSB3008M	Screw	2	Black	U,P,PG
	43	SBSB3008N	Screw	2	Silver	E,A,U,P,PG,BS
		SBSB3008M	Screw	2	Black	E,A,U,P,PG,BS

△ : Safety Parts

△	No.	Part Number	Part Name	Q'ty	Description	Areas
	44	E70078-001	GND. Terminal	1		
△	45	QMF61U1-5R0	Fuse	1		J,C
△	46	QMP1200-200	Power Cord	1		J
△		QMP1480-200H	Power Cord	1		C
△		QMP3900-200	Power Cord	1		E,G
△		QMP2560-244	Power Cord	1		A
△		QMP7600-250	Power Cord	1		U,P,PG
△		QMP9017-008BS	Power Cord	1		BS
△	47	QHS3876-162	Cord Stopper	1		Except BS
△		QHS3876-162BS	Cord Stopper	1		BS
△	48	QMC0637-004	3P AC Outlet	1		J,U,P,PG
△		QMC0638-001	AC Outlet	1		C
△	49	QSR0085-006U	Voltage Selector	1		U,P,PG
△	50	ETP1150-17JA	Power Transformer	1		J,C
△		ETP1150-17FA	Power Transformer	1		U,P,PG
△		ETP1150-17EA	Power Transformer	1		E,A,G
△		ETP1150-17EABS	Power Transformer	1		BS
	51	E03572-007EM	Speaker Terminal	1		
	52	E03623-003	Din Socket	1		Except J,C
	53	QST4361-E08	Push Switch	1		
	54	QST4101-E16	Push Switch	1		
	55	QST4261-E05	Push Switch	1		
	56	QMS6302-128	3P Headphone Jack	1		
△	57	QSP1106-005	Power Switch	1		Except BS
△		QSP1106-005BS	Power Switch	1		BS
	58	QVUB01C-E15C	Variable Resistor	2		
	59	SLR-54DC50F165	L.E.D.	14		
	60	E23862-003	Grill	1	Silver	E,BS
		E23862-004	Grill	1	Black	E,BS
	61	E03872-023	Lamp Ass'y	1		
	62	E71335-002	Fastener	1		
	63	E34455-001	Fastener	1		
△	64	QMF51A2-2R5S	Fuse	1	F001	Except J,C
△		QMF51A2-4ROS	Fuse	1	F001	E,G,A
△		QMF51E2-2R5SBS	Fuse	1	F001	U,P,PG
				1	F001	BS
△	65	QMF51A2-2R5S	Fuse	1	F002	U,P,PG
	66	EMN00TV-405A	4P Pin Jack	1		
	67	EMN00TV-402A	4P Pin Jack	1		
	68	EMN00TV-602A	6P Pin Jack	1		
	69	QVZ5307-001	Variable Resistor	1	BALANCE	
	70	QVTB01B-EF5B	Variable Resistor	1	Main	
	71	E65778-002	Spacer	1		
	72	E72358-001	Trans Bracket	1		J,C

△ : Safety Parts

## The Marks for Designated Areas

J..... U. S. A.                      G..... West Germany  
 C..... Canada                      BS..... U. K.  
 E..... Europe                      P,PG... U.S. Military Market  
 A..... Australia                      U..... Other Countries



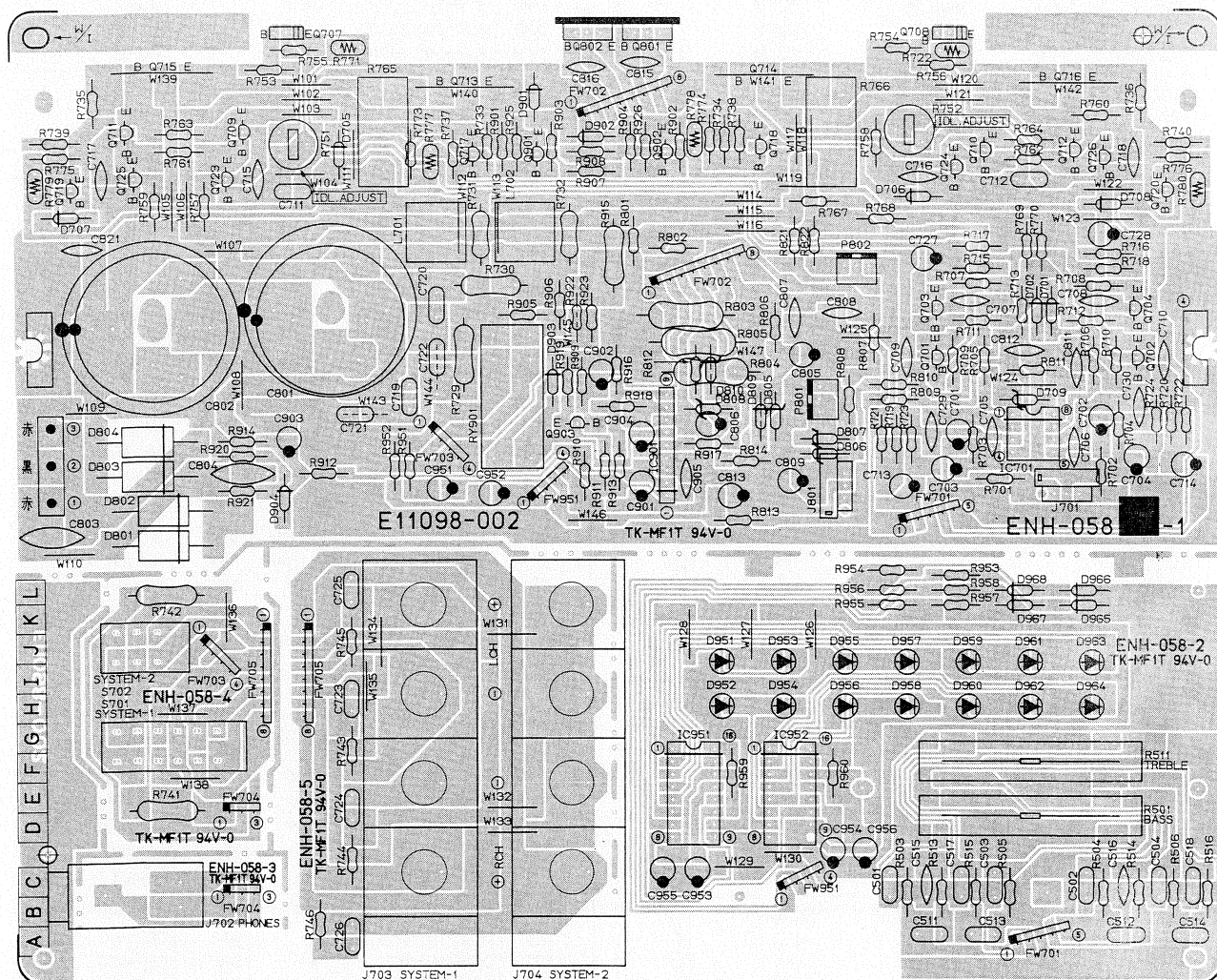
### 3. Printed Circuit Board Ass'y and Parts List

#### ENH-058 □ Power Amplifier P.C. Board Ass'y

Note ENH-058 □ Varies according to the areas employed. See note (1) when placing an order.

Note (1)

P.C. Board Ass'y	Designated Areas
ENH-058 <b>A</b>	U. S. A.
ENH-058 <b>B</b>	Canada
ENH-058 <b>C</b>	Europe & Australia
ENH-058 <b>D</b>	West Germany
ENH-058 <b>F</b>	U.S. Military Market & Other Countries



## Transistors

△	Item No.	Part Number	Description	Maker	Areas
	Q701	2SC2389(S,E)	SILICON	ROHM	
	Q702	2SC2389(S,E)	SILICON	ROHM	
	Q703	2SA1038(R,S)	SILICON	ROHM	
	Q704	2SA1038(R,S)	SILICON	ROHM	
	Q707	2SD636(Q,R)	SILICON	MATSUSHITA	
	Q708	2SD636(Q,R)	SILICON	MATSUSHITA	
	Q709	2SC2235(O,Y)	SILICON	TOSHIBA	
	Q710	2SC2235(O,Y)	SILICON	TOSHIBA	
	Q711	2SA965(O,Y)	SILICON	TOSHIBA	
	Q712	2SA965(O,Y)	SILICON	TOSHIBA	
	Q713	2SD1148LB(O,R)	SILICON	TOSHIBA	
	Q714	2SD1148LB(O,R)	SILICON	TOSHIBA	
	Q715	2SB863LB(R,O)	SILICON	TOSHIBA	
	Q716	2SB863LB(R,O)	SILICON	TOSHIBA	
	Q717	2SC1740LN(R,S)	SILICON	ROHM	
	Q718	2SC1740LN(R,S)	SILICON	ROHM	
	Q719	2SA933LN(R,S)	SILICON	ROHM	
	Q720	2SA933LN(R,S)	SILICON	ROHM	
	Q723	2SC2389(S,E)	SILICON	ROHM	
	Q724	2SC2389(S,E)	SILICON	ROHM	
	Q725	2SA1038(R,S)	SILICON	ROHM	
	Q726	2SA1038(R,S)	SILICON	ROHM	
	Q801	2SD1265A(O,P)	SILICON	MATSUSHITA	
	Q802	2SB941A(P,Q)	SILICON	MATSUSHITA	
	Q901	2SC2389(S,E)	SILICON	ROHM	
	Q902	2SC2389(S,E)	SILICON	ROHM	
	Q903	2SA1038(R,S)	SILICON	ROHM	

## Diodes

△	Item No.	Part Number	Description	Maker	Areas
	D807	RD12EB3	ZENER	NEC	
	D808	RD24EB3	ZENER	NEC	
	D901	1S2076-31	SILICON	HITACHI	
	D902	1S2076-31	SILICON	HITACHI	
	D903	1S2076-31	SILICON	HITACHI	
	D904	1S2076-31	SILICON	HITACHI	
	D951	SLR-54DC50F165	L.E.D.	ROHM	
	D952	SLR-54DC50F165	L.E.D.	ROHM	
	D953	SLR-54DC50F165	L.E.D.	ROHM	
	D954	SLR-54DC50F165	L.E.D.	ROHM	
	D955	SLR-54DC50F165	L.E.D.	ROHM	
	D956	SLR-54DC50F165	L.E.D.	ROHM	
	D957	SLR-54DC50F165	L.E.D.	ROHM	
	D958	SLR-54DC50F165	L.E.D.	ROHM	
	D959	SLR-54DC50F165	L.E.D.	ROHM	
	D960	SLR-54DC50F165	L.E.D.	ROHM	
	D961	SLR-54DC50F165	L.E.D.	ROHM	
	D962	SLR-54DC50F165	L.E.D.	ROHM	
	D963	SLR-54DC50F165	L.E.D.	ROHM	
	D964	SLR-54DC50F165	L.E.D.	ROHM	
	D965	1S2076-31	SILICON	HITACHI	
	D966	1S2076-31	SILICON	HITACHI	
	D967	1S2076-31	SILICON	HITACHI	
	D968	1S2076-31	SILICON	HITACHI	

## ICs

△	Item No.	Part Number	Description	Maker	Areas
	IC701	NJM4558D		JRC	A
	IC701	NJM4558D		JRC	B
	IC701	NJM4558D		JRC	C
	IC701	NJM4560D-X		JRC	D
	IC701	NJM4558D		JRC	F
	IC901	TA7317P		TOSHIBA	
	IC951	IR2E19		SHARP	
	IC952	IR2E19		SHARP	

## Capacitors

△	Item No.	Part Number	Description	Maker	Areas
	C501	QFN31HK-153	0.015MF 50V	MYLAR	
	C502	QFN31HK-153	0.015MF 50V	MYLAR	
	C503	QFN31HK-823	0.082MF 50V	MYLAR	
	C504	QFN31HK-823	0.082MF 50V	MYLAR	
	C511	QFN31HK-332	3300PF 50V	MYLAR	
	C512	QFN31HK-332	3300PF 50V	MYLAR	
	C513	QFN31HK-183	0.018MF 50V	MYLAR	
	C514	QFN31HK-183	0.018MF 50V	MYLAR	
	C515	QCS31HJ-221	220PF 50V	CERAMIC	
	C516	QCS31HJ-221	220PF 50V	CERAMIC	
	C517	QFN31HK-122	1200PF 50V	MYLAR	
	C518	QFN31HK-122	1200PF 50V	MYLAR	
	C701	QETC1HM-475	4.7MF 50V	ELECTORO	
	C702	QETC1HM-475	4.7MF 50V	ELECTORO	
	C703	QETC1AM-107	100MF 10V	ELECTORO	
	C704	QETC1AM-107	100MF 10V	ELECTORO	
	C705	QCS31HJ-101	100PF 50V	CERAMIC	
	C706	QCS31HJ-101	100PF 50V	CERAMIC	
	C707	QCS31HJ-100	10PF 50V	CERAMIC	A
	C707	QCS31HJ-100	10PF 50V	CERAMIC	B
	C707	QCS31HJ-100	10PF 50V	CERAMIC	C
	C707	QCS31HJ-220	22PF 50V	CERAMIC	D
	C707	QCS31HJ-100	10PF 50V	CERAMIC	F
	C708	QCS31HJ-100	10PF 50V	CERAMIC	A
	C708	QCS31HJ-100	10PF 50V	CERAMIC	B
	C708	QCS31HJ-100	10PF 50V	CERAMIC	C
	C708	QCS31HJ-220	22PF 50V	CERAMIC	D
	C708	QCS31HJ-100	10PF 50V	CERAMIC	F
	C709	QCS31HJ-180	18PF 50V	CERAMIC	A
	C709	QCS31HJ-180	18PF 50V	CERAMIC	B

## Diodes

△	Item No.	Part Number	Description	Maker	Areas
	D701	1S2076-31	SILICON	HITACHI	
	D702	1S2076-31	SILICON	HITACHI	
	D705	1S2076-31	SILICON	HITACHI	
	D706	1S2076-31	SILICON	HITACHI	
	D707	1S2076-31	SILICON	HITACHI	
	D708	1S2076-31	SILICON	HITACHI	
	D709	RD3.3EB2	ZENER	NEC	C
	D709	RD3.3EB2	ZENER	NEC	D
	D709	RD3.3EB2	ZENER	NEC	F
	D801	S3V20F	SILICON	SHINDENGEN	
	D802	S3V20F	SILICON	SHINDENGEN	
	D803	S3V20F	SILICON	SHINDENGEN	
	D804	S3V20F	SILICON	SHINDENGEN	
	D805	RD10EB3	ZENER	NEC	
	D806	RD9.1EB3	ZENER	NEC	

△ : Safety Parts

[illegible]

## Capacitors

Item No.	Part Number	Description	Areas
R501	QVUB01C-E15C	1/4W CARBON	Variable
R503	QRD141J-183S	1/4W CARBON	
R504	QRD141J-183S	1/4W CARBON	
R505	QRD141J-332S	1/4W CARBON	
R506	QRD141J-332S	1/4W CARBON	
R511	QVUB01C-E15C	Variable	
R513	QRD141J-472S	1/4W CARBON	Variable
R514	QRD141J-472S	1/4W CARBON	
R515	QRD141J-821S	1/4W CARBON	
R516	QRD141J-821S	1/4W CARBON	
R701	QRD141J-222S	2.2K CARBON	
R702	QRD141J-222S	2.2K CARBON	
R703	QRD141J-104S	100K CARBON	Variable
R704	QRD141J-104S	100K CARBON	
R705	QRD141J-472S	4.7K CARBON	
R706	QRD141J-472S	4.7K CARBON	
R707	QRD145J-820S	1/4W CARBON	
R708	QRD145J-820S	1/4W UNF CARBON	
R709	QRZ0062-820	1/4W FUSIBLE	Variable
R709	QRZ0062-820	1/4W FUSIBLE	
R709	QRZ0062-820S	1/4W UNF CARBON	
R709	QRZ0062-820	1/4W UNF CARBON	
R710	QRZ0062-820	1/4W FUSIBLE	
R710	QRZ0062-820	1/4W FUSIBLE	
R710	QRD145J-820S	1/4W UNF CARBON	Variable
R710	QRD145J-820S	1/4W UNF CARBON	
R711	QRD145J-470S	1/4W UNF CARBON	
R712	QRD145J-470S	1/4W UNF CARBON	
R713	QRD141J-223S	2.2K CARBON	
R715	QRD141J-822S	1/4W CARBON	
R716	QRD141J-822S	1/4W CARBON	Variable
R717	QRD141J-472S	1/4W CARBON	
R718	QRD141J-472S	1/4W CARBON	
R719	QRD141J-133S	1/4W CARBON	
R720	QRD141J-133S	1/4W CARBON	
R721	QRD141J-823S	1/4W CARBON	
R722	QRD141J-823S	1/4W CARBON	Variable
R723	QRD141J-511S	1/4W CARBON	
R724	QRD141J-511S	1/4W CARBON	
R729	QRG012J-100AF	1W O.M.FILM	
R730	QRG012J-100AF	1W O.M.FILM	
R731	QRD125J-330	1/2W UNF CARBON	
R732	QRD125J-330	1/2W UNF CARBON	Variable
R733	QRD141J-181S	1/4W CARBON	
R734	QRD141J-181S	1/4W CARBON	
R735	QRD141J-181S	1/4W CARBON	
R736	QRD141J-181S	1/4W CARBON	
R737	QRD141J-121S	1/4W CARBON	
R738	QRD141J-121S	1/4W CARBON	Variable
R739	QRD141J-121S	1/4W CARBON	
R740	QRD141J-121S	1/4W CARBON	
R741	QRG022J-331AF	2W O.M.FILM	
R742	QRG022J-331AF	2W O.M.FILM	
R743	QRD145J-100S	1/4W UNF CARBON	
R744	QRD145J-100S	1/4W UNF CARBON	Variable
R745	QRD145J-100S	1/4W UNF CARBON	
R746	QRD145J-100S	1/4W UNF CARBON	
R751	QV94A08-471	470	

## Resistors

Item No.	Part Number	Description	Areas
R752	QVPA08-471	470	VARIABLE CARBON
R753	QRD141J-152S	1.5K	CARBON
R754	QRD141J-152S	1.5K	CARBON
R755	QRD141J-391S	390	CARBON
R756	QRD141J-391S	390	CARBON
R757	QRD145J-100S	10	UNF.CARBON
R758	QRD145J-100S	10	UNF.CARBON
R759	QRD145J-100S	10	UNF.CARBON
R760	QRD145J-100S	10	UNF.CARBON
R761	QRD145J-272S	2.7K	UNF.CARBON
R762	QRD145J-272S	2.7K	UNF.CARBON
R763	QRD145J-471S	470	UNF.CARBON
R764	QRD145J-471S	470	UNF.CARBON
R765	ERF032K-R22	0.22	CEMENT
R766	ERF032K-R22	0.22	CEMENT
R767	QRD145J-100S	10	UNF.CARBON
R768	QRD145J-100S	10	UNF.CARBON
R801	QRD145J-100S	10	UNF.CARBON
R801	QRD145J-100S	10	UNF.CARBON
R801	QRZ0062-100	10	FUSIBLE
R801	QRZ0062-100	10	FUSIBLE
R801	ORZ0062-100	10	FUSIBLE
R802	QRD145J-150S	15	UNF.CARBON
R804	QRG022J-390AF	39	O.M.FILM
R806	QRD141J-153S	15K	CARBON
R807	QRD145J-120S	12	UNF.CARBON
R808	QRZ0062-330	33	FUSIBLE
R809	QRD141J-681S	680	CARBON
R810	QRD141J-681S	680	CARBON
R811	QRD141J-202S	2K	CARBON
R812	QRD141J-682S	6.8K	CARBON
R813	QRD145J-220S	22	UNF.CARBON
R813	QRD145J-220S	22	UNF.CARBON
R813	QRZ0062-270	27	FUSIBLE
R813	QRZ0062-270	27	FUSIBLE
R813	QRZ0062-270	27	FUSIBLE
R814	QRD141J-123S	12K	CARBON
R901	QRD141J-272S	2.7K	CARBON
R902	QRD141J-272S	2.7K	CARBON
R903	QRD141J-183S	18K	CARBON
R904	QRD141J-183S	18K	CARBON
R905	QRD141J-104S	100K	CARBON
R906	QRD141J-823S	82K	CARBON
R907	QRD141J-223S	22K	CARBON
R908	QRD141J-223S	22K	CARBON
R909	QRD141J-103S	10K	CARBON
R910	QRD141J-104S	100K	CARBON
R911	QRD141J-473S	47K	CARBON
R912	QRD141J-683S	68K	CARBON
R913	QRD141J-683S	68K	CARBON
R914	QRD141J-822S	8.2K	CARBON
R915	QRG022J-152AF	1.5K	O.M.FILM
R916	QRD141J-303S	30K	CARBON
R917	QRD141J-203S	20K	CARBON
R918	QRD141J-224S	220K	CARBON
R919	QRD141J-332S	3.3K	CARBON
R920	QRD141J-682S	6.8K	CARBON
R921	QRD141J-472S	4.7K	CARBON
R951	QRD141J-123S	12K	CARBON
R952	QRD141J-123S	12K	CARBON

Resistors

Item No.	Part Number	Description	Areas	
R953	QRD141J-471S	470	1/4W	CARBON
R954	QRD141J-471S	470	1/4W	CARBON
R955	QRD141J-103S	10K	1/4W	CARBON
R956	QRD141J-103S	10K	1/4W	CARBON
R957	QRD141J-152S	1.5K	1/4W	CARBON
R958	QRD141J-152S	1.5K	1/4W	CARBON
R959	QRD141J-272S	2.7K	1/4W	CARBON
R960	QRD141J-272S	2.7K	1/4W	CARBON

Δ: Safety Parts

Item No.	Part Number	Description	Areas
E11098-002	CIRCUIT BOARD	HEAT SINK	A
E300209-019	HEAT SINK	HEAT SINK	B
E300209-019	HEAT SINK	HEAT SINK	D
E300209-019	HEAT SINK	HEAT SINK	F
E300209-020	HEAT SINK	HEAT SINK	C
E33754-005	TIE BAND	LEAF SPRING	
E72298-001	LEAF SPRING	BRACKET(L)	
E67292-001	BRACKET(R)	SCREW	
GBSB3008Z	SCREW	TAPPING SCREW	
SBSB3008Z	TAPPING SCREW	TAPPING SCREW	
SBSB3008Z	TAPPING SCREW	SCREW	
E70859-001	EARTH PLATE	3P SOCKET	
J701	E04365-003	3P SOCKET	
J702	QMS6302-128	HEADPHONE JACK	
J703	E03572-007EM	SPEAKER TERMINAL	
J704	E03572-007EM	SPEAKER TERMINAL	
J801	E04365-003	3P SOCKET	
P801	QMW5005-003	3P PLUG ASSY	
RT801	E67764-103	R TERMINAL	
RY901	ESKSD24-218	RELAY	
L701	EQL0001-1R0	INDUCTOR	D
L702	EQL0001-1R0	INDUCTOR	D

Others

## Resistors

Others

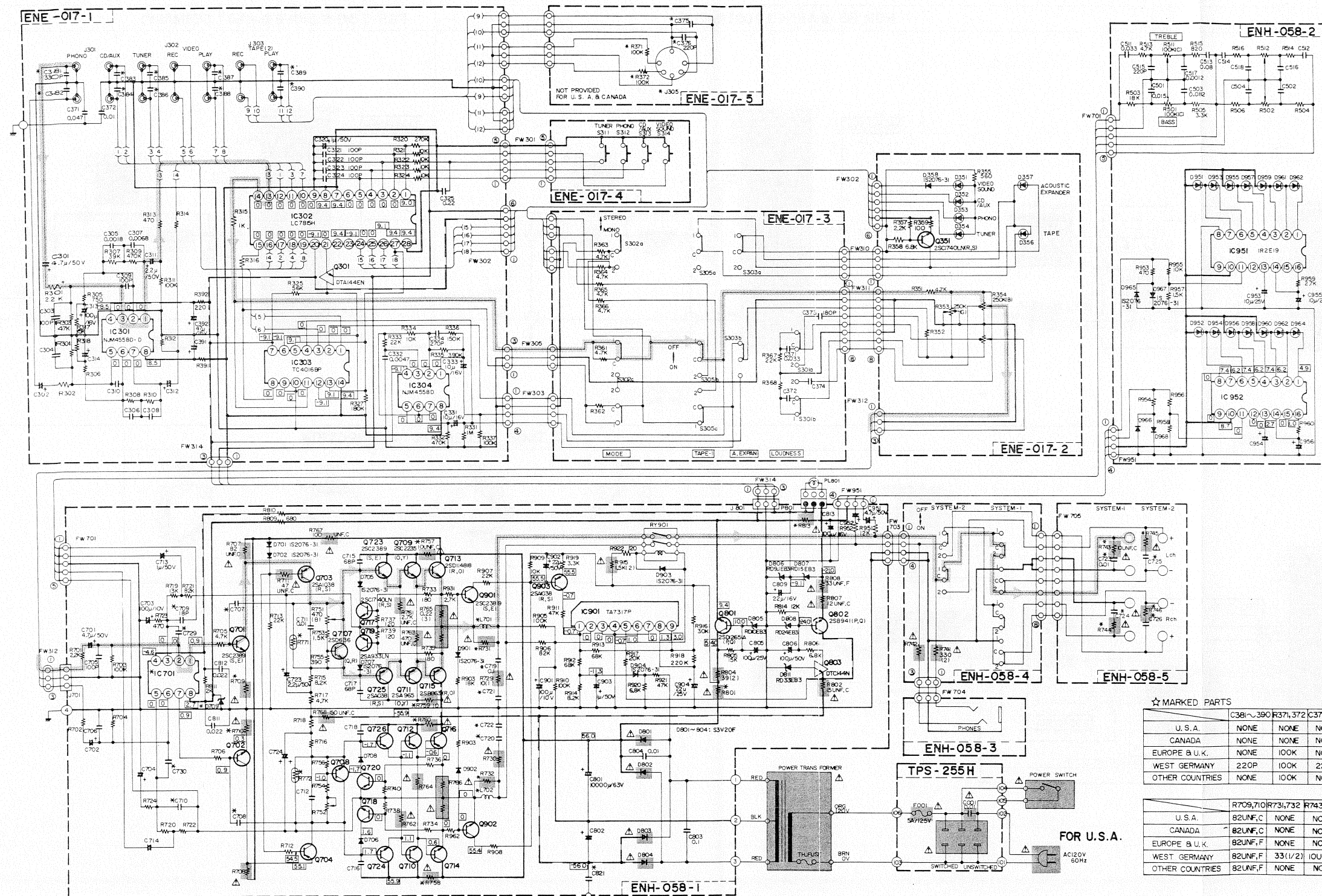
Δ: Safety Parts







## 6. A-GX3 Schematic Diagram



**Note:**  
If the illumination pilot lamp (PL801) for the wind screen is damaged by opening and shortening, do the following:  
(1) Confirm that the parts with the symbol Nos. shown in the table below are defective.  
(2) Replace the diode (D807).

Symbol No.	
R707, 708, 709, 710	82Ω (1/4W)
Q701, 702	2SC2389 (S, E)
R808	33Ω (1/4W)
R802	15Ω (1/4W)

(2) Modification of the diode (D807)  
RD15EB3 → RD15EB3

### Notes:

- indicates positive B power supply.
- - - indicates negative B power supply.
- indicates signal path.
- When replacing the parts in the darkened area (■),

and those marked with  $\Delta$ , be sure to use the designated parts to ensure safety.

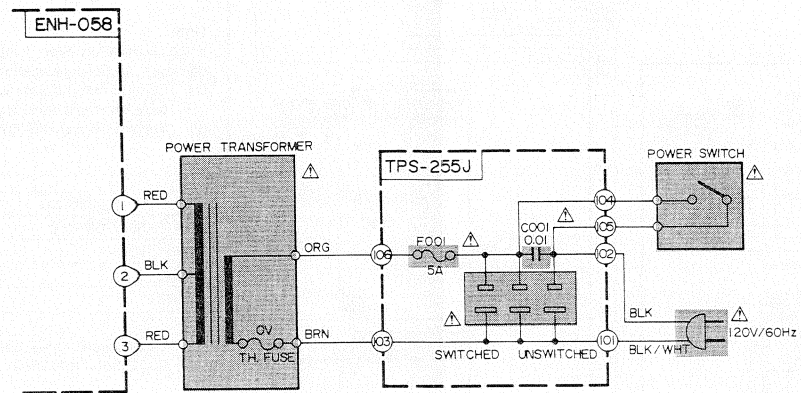
- This is the standard circuit diagram.  
The design and contents are subject to change without notice.

### ★ MARKED PARTS

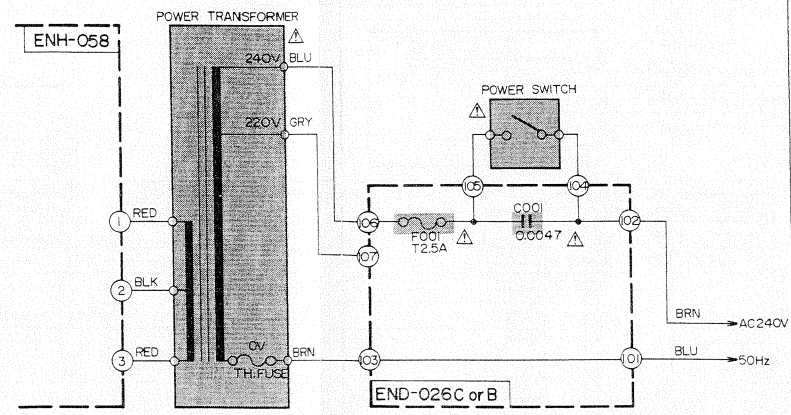
	C381~390	R371, 372	C375, 376	J305	C707, 708	C709, 710	C719, 720	C721, 722	C723~726	C729, 730
U. S. A.	NONE	NONE	NONE	NONE	IOP	I8P	0.047	SHORT	NONE	68P
CANADA	NONE	NONE	NONE	NONE	IOP	I8P	0.047	SHORT	NONE	68P
EUROPE & U. K.	NONE	100K	NONE	USED	IOP	I8P	0.1	0.1	NONE	68P
WEST GERMANY	220P	100K	220P	USED	22P	I5P	0.047	SHORT	Q.01	150P
OTHER COUNTRIES	NONE	100K	NONE	USED	IOP	I8P	0.1	0.1	NONE	68P

	R709, 710	R731, 732	R743~746	R757, 758	R771, 772	L701, 702	IC701	D709	R801	R813
U. S. A.	82UNF, C	NONE	NONE	IOUNF, C	NONE	SHORT	NJM4558D	NONE	IOUNF, C	22UNF, C
CANADA	82UNF, C	NONE	NONE	IOUNF, C	NONE	SHORT	NJM4558D	NONE	IOUNF, C	22UNF, C
EUROPE & U. K.	82UNF, F	NONE	NONE	IOUNF, C	ERT-02WH 1202S	SHORT	NJM4558D	RD3, 3EB2	IOUNF, F	27UNF, F
WEST GERMANY	82UNF, F	33(1/2)	IOUNF, C	IOUNF, C	NONE	IΩH	NJM4560D-X	RD3, 3EB2	IOUNF, F	27UNF, F
OTHER COUNTRIES	82UNF, F	NONE	NONE	IOUNF, C	NONE	SHORT	NJM4558D	RD3, 3EB2	IOUNF, F	27UNF, F

FOR C(CANADA)

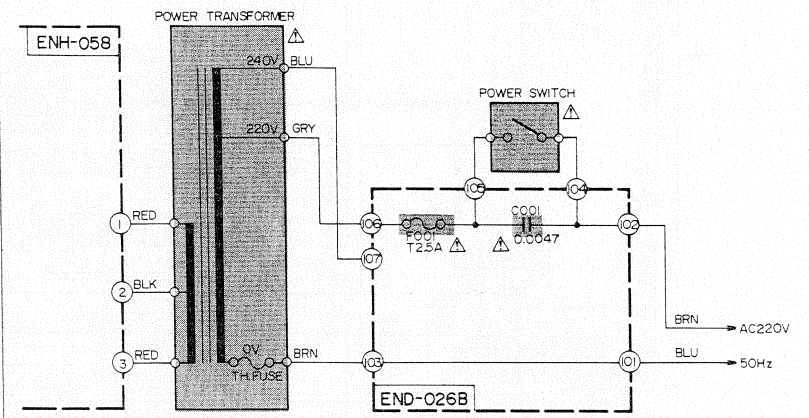


FOR BS & A(U.K & AUSTRALIA)

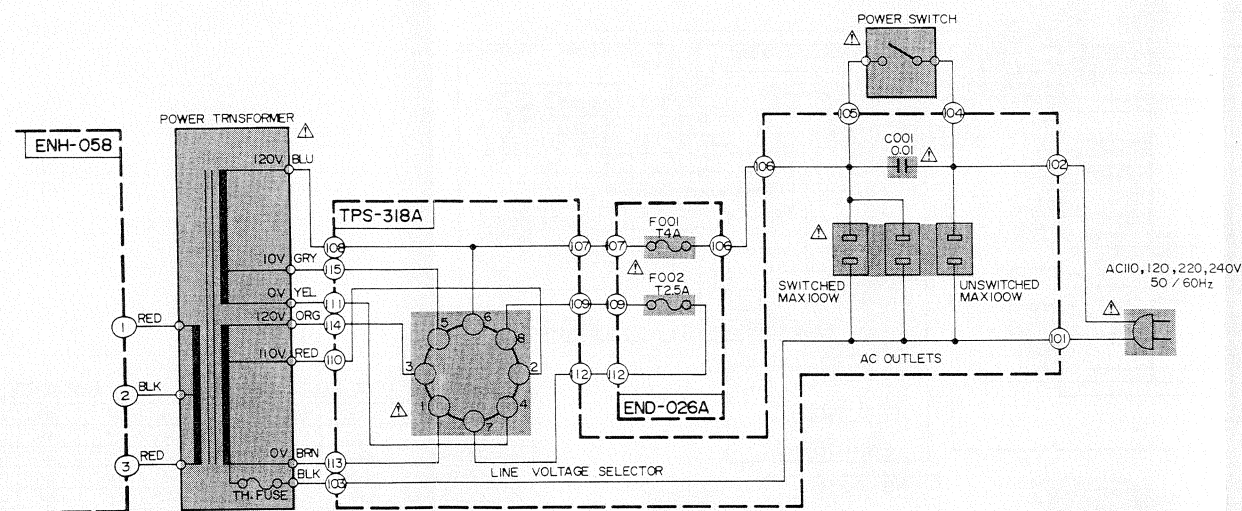


END-026C: U.K.  
END-026B: AUSTRALIA

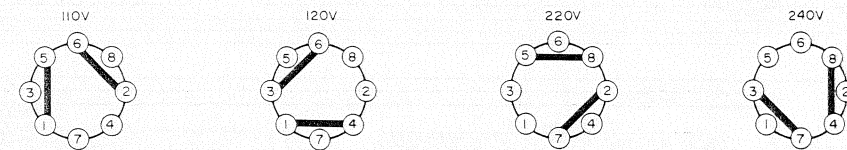
FOR E & G(EUROPE & WEST GERMANY)



FOR U & P(OTHER COUNTRIES)



VOLTAGE SELECTOR CONNECTION



TOP VIEW



## Resistors

△	Item No.	Part Number	Description			Areas
	R363	QRD141J-472S	4.7K	1/4W	CARBON	
	R364	QRD141J-472S	4.7K	1/4W	CARBON	
	R365	QRD141J-472S	4.7K	1/4W	CARBON	
	R366	QRD141J-472S	4.7K	1/4W	CARBON	
	R367	QRD141J-223S	22K	1/4W	CARBON	
	R368	QRD141J-223S	22K	1/4W	CARBON	
	R371	QRD141J-104S	100K	1/4W	CARBON	B
	R371	QRD141J-104S	100K	1/4W	CARBON	C
	R372	QRD141J-104S	100K	1/4W	CARBON	B
	R372	QRD141J-104S	100K	1/4W	CARBON	C
	R391	QRD141J-221S	220	1/4W	CARBON	
	R392	QRD141J-221S	220	1/4W	CARBON	

## Others

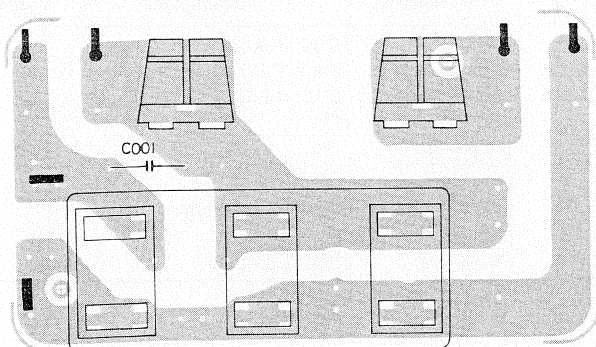
△	Item No.	Part Number	Description	Areas
		E11099-002	CIRCUIT BOARD	
	J301	EMN00TV-405A	4P PIN JACK	
	J302	EMN00TV-402A	PIN JACK ASSY	
	J303	EMN00TV-602A	PIN JACK ASSY	
	J305	E03623-003	DIN SOCKET	B
	J305	E03623-003	DIN SOCKET	C
	S301	QST4361-E08	PUSH SWITCH	
	S305	QST4101-E16	PUSH SWITCH	
	S311	ESP0001-007	PUSH SWITCH	
	S312	ESP0001-007	PUSH SWITCH	
	S313	ESP0001-007	PUSH SWITCH	
	S314	ESP0001-007	PUSH SWITCH	

## TPS-255 □ AC outlet P.C. Board Ass'y

Note TPS-255 □ Varies according to the areas employed. See note (1) when placing an order.

Note (1)

P.C. Board Ass'y	Designated Areas
TPS-255 [H]	U. S. A.
TPS-255 [J]	Canada



## Capacitor

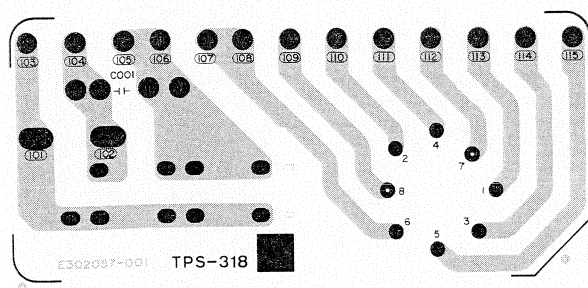
△	Item No.	Part Number	Description	Areas
	C001	QCZ9019-103	0.01MF CERAMIC	

## Others

△	Item No.	Part Number	Description	Areas
		E65508-001	TAB	
		E65508-001	TAB	
		QMC0637-004	3P AC OUTLET	H
		QMC0638-001	AC OUTLET	J
		E43727-001	TAB	
		E03675-004	FUSE CLIP	
		E66003-005	CIRCUIT BOARD	

△ : Safety Parts

TPS-318 [A] Voltage Selector P.C. Board Ass'y  
(For U.S. Military Market & Other Countries Only)



## Capacitor

△	Item No.	Part Number	Description	Areas
	C001	QFH53BM-103M	40.01MF 1250V M.MYLAR	

## Others

△	Item No.	Part Number	Description	Areas
		E302057-001	CIRCUIT BOARD	
		E65508-001	TAB	
		QSR0085-006U	VOLTAGE SELECTOR	
		QMC0637-004	3P AC OUTLET	
		E43727-001	TAB	

△ : Safety Parts

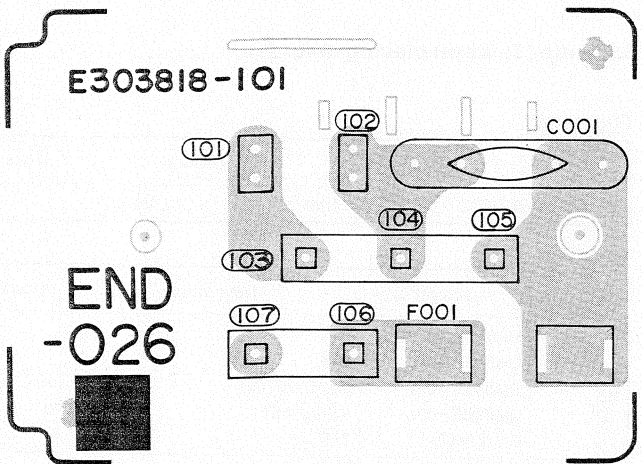


END-026 Fuse P.C. Board Ass'y

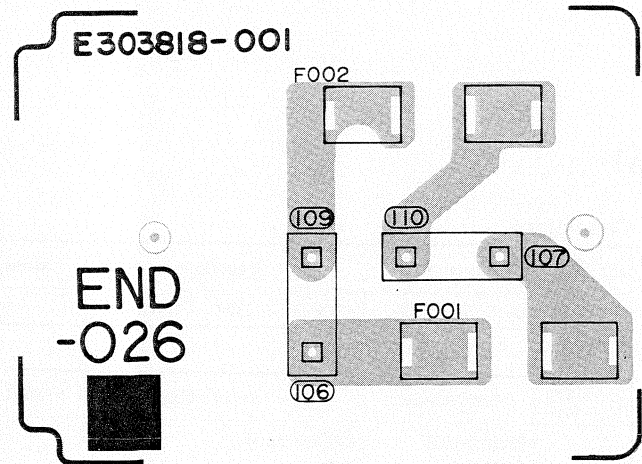
Note END-026 Varies according to the areas employed. See note (1) when placing an order.

Note (1)

P.C. Board Ass'y	Designated Areas
END-026 A	U.S. Military Market & Other Countries
ENE-026 B	Europe, Australia, & West Germany
END-026 CBS	U.K.



(for Europe, Australia, U.K. & West Germany only)



(for U.S. Military Market & Other Countries only)

Capacitors

△	Item No.	Part Number	Description		Areas
△	C001	QCZ9019-472BS	4700PF	CERAMIC	CBS
△	C001	QCZ9019-472	4700PF	CERAMIC	B

△ : Safety Parts

Others

△	Item No.	Part Number	Description	Areas
		E303818-001	CIRCUIT BOARD	A
		E303818-101	CIRCUIT BOARD	B
		E303818-101BS	CIRCUIT BOARD	CBS
		E65508-002	TAB	B
		E65508-002	TAB	CBS
		EMG7331-001	FUSE CLIP	
		E67764-202	WRAPPING TERMINAL	
		E67764-203	TERMINAL ASS'Y	B
		E67764-203	TERMINAL ASS'Y	CBS

## 4. Accessories List

△	Part Number	Part Name	Description	Areas
	E3O580-1237A E3O580-1237ABS BT20048B BT20025F BT20054-006A	Instruction Book Instruction Book Warranty Card Warranty Card Warranty Card		Except BS BS J,P,PG C G
	BT20029C BT20060 BT20044D BT20046B BT20071A	Warranty Card Warranty Card Safety Instruction Service Information Card Service Center List		A BS J J,P,PG C
	BT20066 BT20054-006A E66416-003 E41202-2 E41202-2B	EEC Agency FTZ Information Envelope Envelope Envelope		G,BS G J Except BS BS
△	E04056	Siemens Plug		

### The Marks for Designated Areas

△ : Safety Parts

J..... U. S. A.  
 C..... Canada  
 E..... Europe  
 A..... Australia  
 G..... West Germany  
 BS..... U. K.  
 P,PG... U.S. Military Market  
 U..... Other Countries

## 5. Packing Materials and Part Numbers

